

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P482739

Luminaire Tested: **IFLD-M-SA4A-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

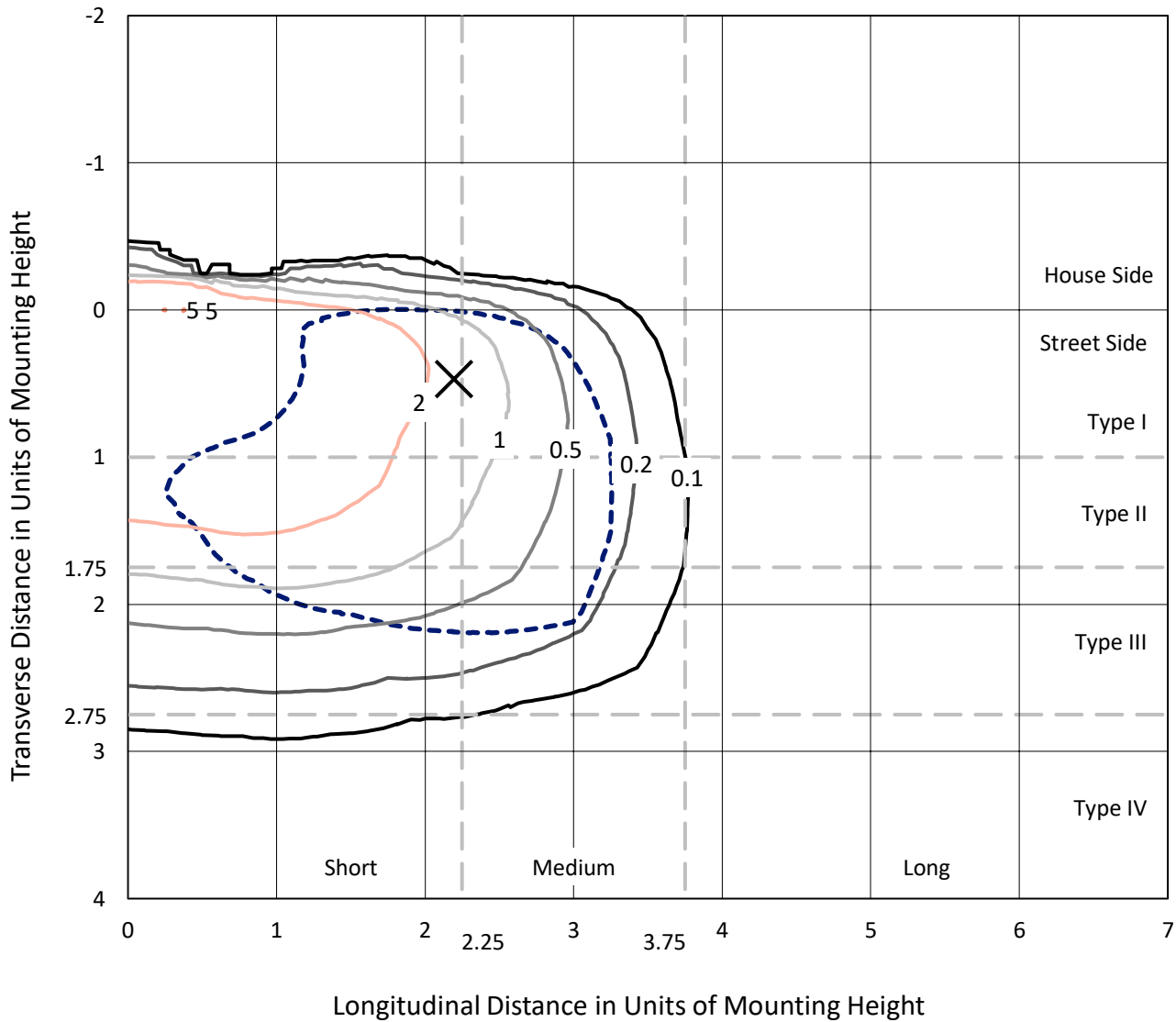
Lumens per Lamp: N/A
Luminaire Lumens: 11070.7 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

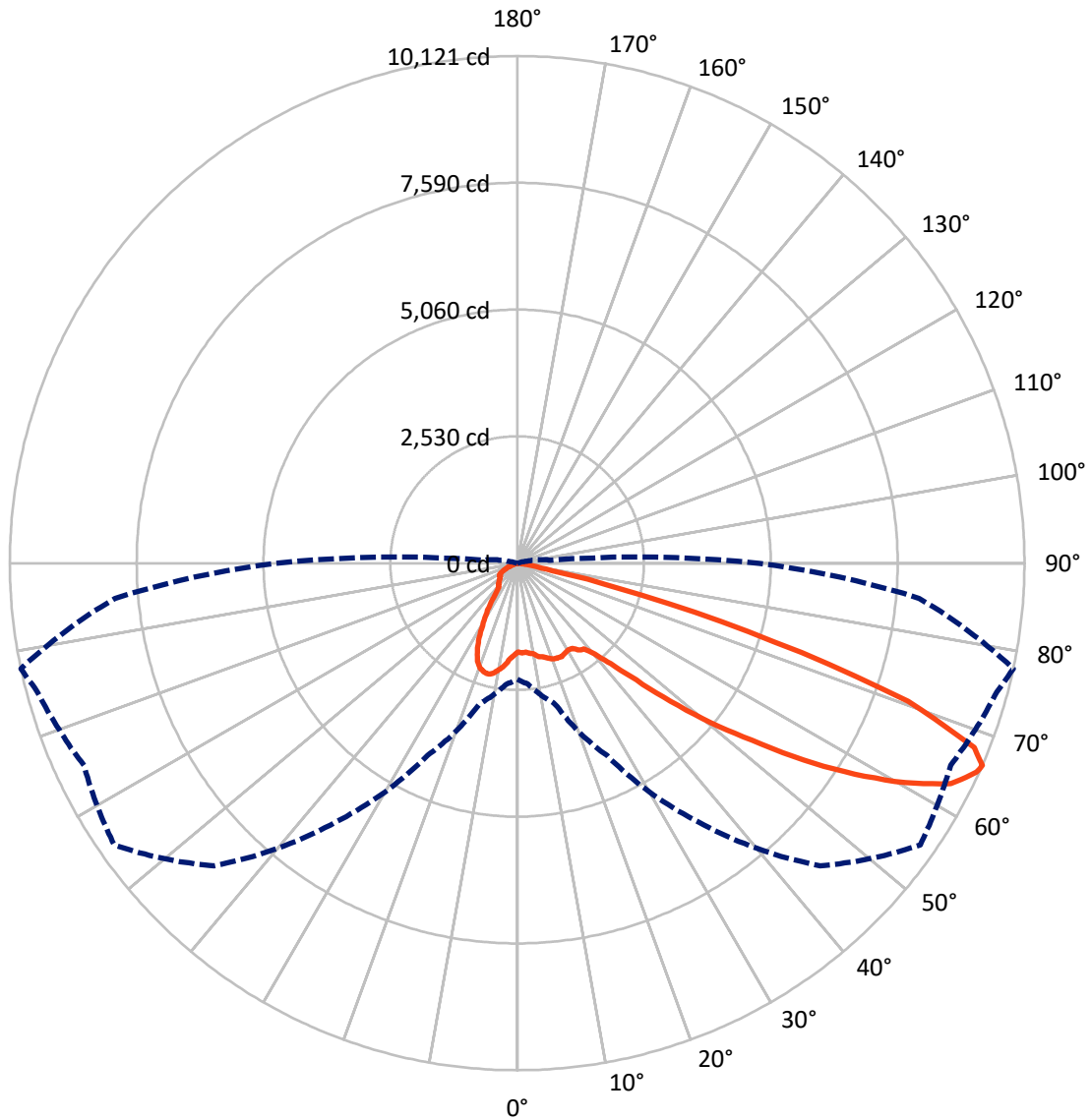
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 778.3 | 0.0 | 778.3 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 10292.4 | 0.0 | 10292.4 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 11070.7 | 0.0 | 11070.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.2 | 1.5 |
| 10°-20° | 366.2 | 3.3 |
| 20°-30° | 523.4 | 4.7 |
| 30°-40° | 895.9 | 8.1 |
| 40°-50° | 1617.0 | 14.6 |
| 50°-60° | 2765.3 | 25.0 |
| 60°-70° | 3403.6 | 30.7 |
| 70°-80° | 1286.8 | 11.6 |
| 80°-90° | 50.3 | 0.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 11070.7 | 100.0 |
| 0°-180° | 11070.7 | 100.0 |

Coefficient of Utilization

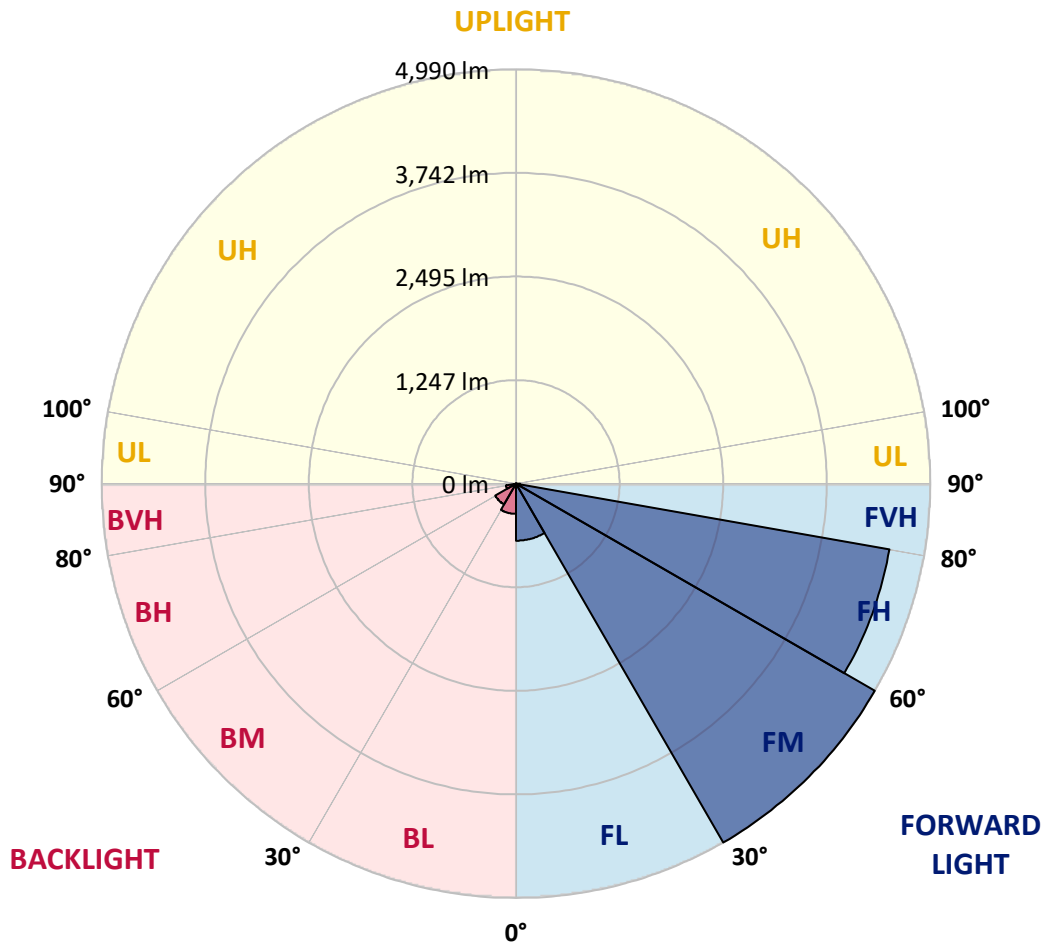


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 687.3 | 6.2 | | | |
| FM (30°-60°) | 4989.8 | 45.1 | | | |
| FH (60°-80°) | 4567.1 | 41.3 | | | G2/5000 |
| FVH (80°-90°) | 48.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 364.5 | 3.3 | B1/500 | | |
| BM (30°-60°) | 288.5 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 123.3 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0° | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 |
| 2.5° | 1631.0 | 1615.9 | 1631.0 | 1652.7 | 1664.4 | 1674.5 | 1709.6 | 1739.7 | 1771.5 | 1793.2 | 1786.6 |
| 5° | 1512.2 | 1540.7 | 1544.0 | 1550.7 | 1569.1 | 1629.3 | 1649.4 | 1701.2 | 1779.9 | 1786.6 | 1816.7 |
| 7.5° | 1418.5 | 1410.2 | 1431.9 | 1475.4 | 1522.3 | 1557.4 | 1615.9 | 1706.3 | 1788.2 | 1816.7 | 1875.2 |
| 10° | 1283.0 | 1299.8 | 1323.2 | 1366.7 | 1423.6 | 1510.5 | 1614.3 | 1714.6 | 1831.7 | 1841.8 | 1950.5 |
| 12.5° | 1209.4 | 1192.7 | 1229.5 | 1274.7 | 1371.7 | 1452.0 | 1579.1 | 1699.6 | 1858.5 | 1913.7 | 2039.1 |
| 15° | 1149.2 | 1157.6 | 1192.7 | 1222.8 | 1303.1 | 1405.2 | 1554.0 | 1736.4 | 1903.7 | 1942.1 | 2132.8 |
| 17.5° | 1124.1 | 1119.1 | 1145.9 | 1176.0 | 1274.7 | 1390.1 | 1544.0 | 1738.0 | 1943.8 | 1994.0 | 2196.4 |
| 20° | 1135.8 | 1145.9 | 1137.5 | 1165.9 | 1227.8 | 1344.9 | 1559.1 | 1769.8 | 1973.9 | 2042.5 | 2265.0 |
| 22.5° | 1319.8 | 1306.5 | 1239.5 | 1186.0 | 1189.4 | 1326.5 | 1547.3 | 1789.9 | 2000.7 | 2055.9 | 2311.8 |
| 25° | 1799.9 | 1728.0 | 1562.4 | 1356.6 | 1221.1 | 1276.4 | 1534.0 | 1783.2 | 1995.7 | 2064.2 | 2340.3 |
| 27.5° | 2283.4 | 2221.5 | 2059.2 | 1739.7 | 1350.0 | 1256.3 | 1487.1 | 1788.2 | 1970.6 | 2034.1 | 2293.4 |
| 30° | 2793.6 | 2827.0 | 2586.2 | 2206.4 | 1687.9 | 1366.7 | 1457.0 | 1761.5 | 1953.8 | 2007.4 | 2303.5 |
| 32.5° | 3317.2 | 3303.8 | 3158.3 | 2746.7 | 2171.3 | 1610.9 | 1505.5 | 1788.2 | 1975.6 | 2027.4 | 2362.0 |
| 35° | 3727.0 | 3680.2 | 3533.0 | 3161.6 | 2571.1 | 1978.9 | 1672.8 | 1915.4 | 2070.9 | 2132.8 | 2445.6 |
| 37.5° | 3929.4 | 3949.5 | 3864.2 | 3541.3 | 3009.4 | 2320.2 | 1881.9 | 1915.4 | 2101.0 | 2173.0 | 2581.1 |
| 40° | 4086.7 | 4146.9 | 4115.1 | 4011.4 | 3444.3 | 2704.9 | 2112.8 | 2034.1 | 2253.3 | 2388.8 | 2835.4 |
| 42.5° | 4275.7 | 4247.3 | 4434.6 | 4339.3 | 4013.1 | 3190.0 | 2517.6 | 2316.8 | 2612.9 | 2743.4 | 3216.8 |
| 45° | 4376.1 | 4484.8 | 4627.0 | 4749.1 | 4540.0 | 3795.6 | 3046.2 | 2817.0 | 3163.3 | 3328.9 | 3783.9 |
| 47.5° | 4633.7 | 4677.2 | 4908.0 | 5061.9 | 4968.2 | 4488.1 | 3849.1 | 3548.0 | 3855.8 | 4116.8 | 4432.9 |
| 50° | 4784.2 | 4725.7 | 5048.5 | 5282.7 | 5336.2 | 5061.9 | 4568.4 | 4334.2 | 4678.8 | 5011.7 | 5040.2 |
| 52.5° | 4652.1 | 4819.4 | 5142.2 | 5562.1 | 5711.0 | 5573.8 | 5413.2 | 5311.2 | 5553.7 | 5861.5 | 5724.3 |
| 55° | 4188.7 | 4302.5 | 5088.7 | 5868.2 | 6348.3 | 6284.7 | 6433.6 | 6366.7 | 6610.9 | 6937.1 | 6523.9 |
| 57.5° | 3815.7 | 3957.9 | 4648.7 | 6027.1 | 6942.1 | 7129.5 | 7316.9 | 7275.0 | 7569.4 | 7945.8 | 7201.4 |
| 60° | 3583.1 | 3665.1 | 4330.9 | 5987.0 | 7293.4 | 8002.7 | 8425.9 | 8131.5 | 8611.6 | 8899.3 | 7731.7 |
| 62.5° | 3180.0 | 3231.9 | 3867.5 | 5455.0 | 7398.8 | 8620.0 | 9337.6 | 8937.8 | 9354.3 | 9705.6 | 8113.1 |
| 65° | 2549.4 | 2689.9 | 3215.1 | 4658.8 | 6702.9 | 8733.7 | 9906.4 | 9436.3 | 9839.4 | 10070.3 | 8228.5 |
| 66° | 2320.2 | 2422.2 | 2904.0 | 4237.2 | 6306.5 | 8544.7 | 9811.0 | 9540.0 | 9909.7 | 10120.5 | 8051.2 |
| 67.5° | 1925.4 | 2014.1 | 2397.1 | 3636.7 | 5495.2 | 8128.2 | 9877.9 | 9469.8 | 9963.2 | 9834.4 | 7813.7 |
| 70° | 1274.7 | 1331.6 | 1639.3 | 2459.0 | 3827.4 | 6649.4 | 9162.0 | 8921.1 | 8758.8 | 8275.4 | 6109.1 |
| 72.5° | 595.5 | 677.5 | 1023.8 | 1490.5 | 2244.9 | 4652.1 | 7470.7 | 7147.9 | 6142.5 | 5369.7 | 3854.1 |
| 75° | 269.3 | 306.1 | 562.1 | 854.8 | 1007.0 | 2410.5 | 4819.4 | 4352.6 | 3057.9 | 2539.3 | 1687.9 |
| 77.5° | 145.5 | 165.6 | 274.3 | 406.5 | 366.3 | 844.8 | 2385.4 | 1983.9 | 963.5 | 705.9 | 490.1 |
| 80° | 112.1 | 132.2 | 229.2 | 232.5 | 135.5 | 219.1 | 886.6 | 613.9 | 240.9 | 182.3 | 117.1 |
| 82.5° | 58.5 | 83.6 | 180.7 | 150.6 | 68.6 | 88.7 | 274.3 | 170.6 | 75.3 | 60.2 | 50.2 |
| 85° | 23.4 | 36.8 | 102.0 | 100.4 | 40.1 | 30.1 | 76.9 | 51.9 | 30.1 | 25.1 | 23.4 |
| 87.5° | 1.7 | 1.7 | 55.2 | 38.5 | 25.1 | 8.4 | 11.7 | 11.7 | 15.1 | 13.4 | 16.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 | 1773.2 |
| 2.5° | 1816.7 | 1836.7 | 1840.1 | 1895.3 | 1907.0 | 1895.3 | 1925.4 | 1920.4 | 1933.8 | 1923.7 | 1905.3 |
| 5° | 1858.5 | 1886.9 | 1942.1 | 1983.9 | 1983.9 | 1950.5 | 1923.7 | 1888.6 | 1836.7 | 1823.4 | 1813.3 |
| 7.5° | 1930.4 | 2020.7 | 2070.9 | 2044.2 | 1990.6 | 1865.2 | 1691.2 | 1564.1 | 1457.0 | 1416.9 | 1398.5 |
| 10° | 2057.6 | 2107.7 | 2166.3 | 2057.6 | 1835.1 | 1569.1 | 1276.4 | 1084.0 | 933.4 | 900.0 | 874.9 |
| 12.5° | 2139.5 | 2219.8 | 2253.3 | 1983.9 | 1547.3 | 1150.9 | 833.1 | 615.6 | 510.2 | 429.9 | 416.5 |
| 15° | 2246.6 | 2338.6 | 2270.0 | 1784.9 | 1219.5 | 754.4 | 431.6 | 269.3 | 219.1 | 205.8 | 205.8 |
| 17.5° | 2320.2 | 2420.5 | 2201.4 | 1537.3 | 864.8 | 401.5 | 214.1 | 185.7 | 182.3 | 184.0 | 180.7 |
| 20° | 2449.0 | 2509.2 | 2097.7 | 1249.6 | 516.9 | 205.8 | 172.3 | 165.6 | 162.3 | 167.3 | 163.9 |
| 22.5° | 2497.5 | 2552.7 | 1928.7 | 905.0 | 232.5 | 137.2 | 128.8 | 123.8 | 127.1 | 125.5 | 123.8 |
| 25° | 2494.2 | 2522.6 | 1651.1 | 518.6 | 68.6 | 53.5 | 48.5 | 48.5 | 45.2 | 46.8 | 45.2 |
| 27.5° | 2519.2 | 2449.0 | 1339.9 | 153.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2532.6 | 2330.2 | 953.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2539.3 | 2268.3 | 613.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2591.2 | 2144.5 | 262.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2626.3 | 1985.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 2771.8 | 1935.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 2960.9 | 1841.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 3223.5 | 1702.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 3571.4 | 1620.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 3830.7 | 1492.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 4160.3 | 1415.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4551.7 | 1418.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4908.0 | 1395.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 5090.3 | 1192.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 5051.9 | 965.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4918.0 | 757.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 4826.0 | 670.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4546.7 | 537.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3618.3 | 368.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2301.8 | 225.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1060.6 | 103.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 332.9 | 63.6 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 87.0 | 40.1 | 13.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 45.2 | 28.4 | 11.7 | 5.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 28.4 | 11.7 | 5.0 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.1 | 6.7 | 3.3 | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)